

INDEX TO VOLUME 154, JANUARY-JUNE, 1936

AGRICULTURE	
Cotton for Highways.....	341
Erosion Control.....	326
Farm Products in Factories.....	319
Frost Chaser.....	30
Insecticide—Derris.....	211
Soy-Bean Production.....	36
Sugar Cane Diseases.....	113, 144
AIRPLANES. See Aviation	
ALUMINUM'S FUTURE	65
ANTHROPOLOGY. See Archeology, etc.	
ARCHEOLOGY, ANTHROPOLOGY, and ETHNOLOGY	
Babylon's "Solid Beer".....	277
Beth-Shan, Palestine.....	76
Helical Gears in Middle Ages.....	206
Interglacial Man in America.....	4
Minturnae.....	325
Missionaries of Science, Amateur.....	177
Nebraska Protects Antiquities.....	226
"Optical" Rouge.....	207
Peking Man, Food of.....	14
Roman Excavations.....	301
Serpent Mound in Ohio.....	182
ARMY & NAVY	
Aeronautics in Naval Architecture.....	276
Armor Piercing Shell, New.....	88
Army Equipment, Motorized.....	192
Bomber versus Pursuit Planes.....	202
Capital Ship's Structural Defense.....	259
Civil Aviation in National Defense.....	10
Diesels for Battleships?.....	18
Monitor Drawings.....	38
Pacificif Piffle.....	64
Raw Materials, Strategic.....	138
Refueling System for Army Cars.....	36
Seaplane Record, Navy.....	33
Tear Gas Projectile Brazed.....	291
Tripartite Naval Treaty.....	305
War Fire.....	272
ASTRONOMY	
Bridge Builder, Lawyer, Manufacturer.....	176
Double Stars.....	314
Earth Safe from Collision.....	248
McDonald Observatory.....	137
Minor Planets.....	136
Nova Herculis, More About.....	74
Planets, Minor.....	184
Solar Tower.....	176
Star Finder, Simple.....	265
Sun-Spots and Magnetic Storms.....	270
Telescope Maker, Amateur 40, 95, 153, 214	
Telescope, Space Penetrating Power of.....	280, 342
Telescope, 200-inch.....	237
Telescopes, 12-Inch, Amateur.....	320
ASTROPHYSICS. See Astronomy	
AUTOMOBILES	
Air Conditioned Motor Vehicles.....	150
Automobiles, European.....	241
CO, Death and.....	61
Cylinder Repairs Checked.....	162
Death and the Motor Car.....	9
Death on Four Wheels.....	122
Headlight Bulb, Bar Filament.....	224
Horns or Brakes?.....	305
Military Motorized Equipment.....	192
Rail-Highway Truck.....	268
Refueling System for Army Test Equipment.....	36
Tire, Non-Skid.....	199
Tire, Non-Skid.....	87
AVIATION	
Air Camera for Amateurs.....	203
Airline Bids, Pacific.....	31
Airmail by Rocket?.....	202
Air Operation, Cold Weather.....	89
Airport Directory.....	33
Air Records.....	278
Airships, Build?.....	177
Airship Survey Report.....	267
Amphibian, Fairchild 91.....	267
Atlantic Flight.....	173, 177
Automatic Flight.....	202
Aviation, Banner Year for.....	278
Beacon, Airport.....	201
Blind Flying by Sound.....	266
Bomber Versus Pursuit.....	202
Brakes for Airplanes.....	148
Catapulting Commercial Airplanes.....	270
Civil Aviation in National Defense.....	10
Club Car, Flying (Boeing 247-D).....	32
Coupe for Private Flying.....	203
De-icing the Propellers.....	200
Drift and Speed Indicator.....	200
"Flying" Flea".....	146
Great Circle Aircraft Construction.....	266
Hindenburg.....	330
Home Airplane Design.....	89
Instruments, Light for.....	33
Lubrication by Centrifugal Action.....	201
Meteorology, Visibility in	33
"Motor Glide".....	272
Nosing Over, Experiments in.....	332
Octane Rating (100).....	201
Plastic Materials? Airplanes of.....	105
Propeller Blades, Machining.....	90
Radio Flying.....	322
Rockets, Pioneer Work With.....	89, 202
Roof Top Landings.....	33
Seaplane Record, Navy.....	33
Sleepers, Douglas.....	147
Tailless Private Airplane.....	32
BIOGRAPHY & PORTRAITS	
Armstrong, Major Edwin H.....	3
Carrel, Dr. Alexis.....	235
Curie-Joliot, Irene.....	83
Heisenberg.....	80
Joliot, Prof. F.....	83
Kettering, Charles F., Award to.....	203
Livingston, Dr. M. S., of.....	116
Mahan, Admiral, Projected Biography.....	204
Mottern, H. H.....	119
Seuburger, Mrs. M. M.....	195
Swasey, Ambrose.....	115
Zworykin, Dr. V. K.....	69
BOTANY	
Floriculture, Electrical.....	133
Lily, Nondescent.....	34
Pasteurized Dirt.....	273
Peanut-Walnut.....	273
BRIDGES	
Aluminum Floored Bridge.....	67
Golden Gate Bridge Cables.....	94
San Francisco Bridge.....	60
BUILDING CONSTRUCTION	
Concrete, Storm Testing.....	336
Concrete, "Whipped" (Poretherm).....	38
Glazing, Strip for Double.....	204
Lime, Waterproof.....	107
Masonry, Rubber for Caulking.....	268
Preventing Plant Growth on Masonry.....	211
Soil, Sandy, Solidified.....	340
Windowless Building Features.....	208
CHEMISTRY	
Boron Wearing Surfaces.....	150
Cement Particles, Measuring Minute.....	207
Chromium Plating.....	163
Coal-Tar Chemicals, Shortage of.....	264
Concrete, Storm Testing.....	336
Concrete, "Whipped" (Poretherm).....	38
Dust Explosions.....	70
Dyes, Fast American.....	316
Farm Products in Factories.....	319
Fresh Water from Sea.....	121
Gadolinium Isolated.....	204
Hydrogenation Ages Whisky.....	162
Methyl Bromide Fire Extinguisher.....	145
Microscopic Chemistry.....	352
Molding Material, Anti-Friction.....	273
Oils, New Test for.....	95
Paraffin, Uses for.....	335
Phenothiazine for Moth Control.....	145
Preventing Plant Growth on Masonry.....	211
Printing, Chemistry Speeds Up.....	108
Rat Killer, Dry Ice as.....	338
Soap versus Soapless Soap.....	30
Soil, Sandy, Solidified.....	340
Temperature Control.....	149
Tetronite B.....	332
Turpentine, Dehydration of.....	353
Wood Distillation.....	265
Wood Pulp Utilization.....	189
"Zam" Improves Zinc Plating.....	206
CRIME	
Documents, Photographing Burned.....	339
Fingerprint Differences.....	333
Fingerprint Machine.....	150
Section Slicer.....	73
DAMS	
Boulder Dam, Schematic View of.....	199
Boulder Dam Turbine Casing.....	87
Fort Peck Dam.....	306
France, Second Highest Dam in.....	270
Silt Removal, Colorado River.....	91
DIESELS	
Diesels for Battleships?.....	18
Weight Saving in Construction.....	328
DIRIGIBLES. See Aviation	
DUST EXPLOSIONS	70
ECONOMICS	
Industry and Employment.....	241
ELECTRICITY	
Auto Bulb, Bar-Filament.....	224
Electrocamera.....	265
Fan, Safe.....	270
Floriculture, Electrical.....	133
Fly Killer, Electric.....	328
Garden Lighting.....	336
GENERATING PLANT, HOME-MADE	129
Generator, Bicycle.....	210
High Voltage, Commercial Research in.....	84
Milk Purified by Electricity.....	224
Motor, Multi-Speed.....	273
Telephone, "Speaking Clock" for.....	272
ELECTRONICS. See also Radio	
Beam Power Amplifier.....	351
Color Analyzer.....	149
Electron Lens (Zworykin).....	250
Electron Multiplier.....	68
Photo Cells for Many Uses.....	205
Photronic Cell, High-Output.....	106
Television Motor.....	269
Tuning Indicators.....	351
ENGINEERING, CIVIL. See also Bridges, Dams, and Tunnels	
Bordeaux, Modern Port for.....	252
Caissons, Gyrating.....	196
Cape Cod Canal.....	26
Fort Peck Dam.....	306
Oil Lines Bridge Highway.....	211
River Bed, Stainless Steel.....	164
Sea-Shore Erosion.....	130
Silt Removal, Colorado River.....	91
ENGINEERING, MECHANICAL	
Cable Wire, New Test for.....	205
Helical Gears in Middle Ages.....	206
Newcomen Engine Reconstructed.....	260
Strip Shovel, World's Largest.....	264
ENTOMOLOGY	
Beetles, Japanese, Resisted Winter.....	264
Coddling Moth Control.....	145
Mantis.....	304
Mosquitoes Cause Deaths.....	161
Sugar Cane Pests.....	86
ETHNOLOGY. See Archeology, etc.	
FABRICS, WHY FADED?	316
FINE ARTS	
Gold Art Revived.....	88
Ultra-Violet for Art Examination.....	36
FIRE	
Cotton Duck, Fireproofing.....	290
Fire Extinguisher, Methyl Bromide.....	145
Oil Fires, Extinguish, With Water.....	31
FISH AND FISHERIES	
Live Bait May Spoil Fishing.....	273
Smothering Fish.....	30
Swordfish Stabs a Boat.....	332
Trout, Hatchery, Do They Go Wild?.....	242
FOODS	
Eggs, Keeping, Fresh.....	341
Food versus Beauty.....	163
Fruit Preserved with Iodized Wrappers.....	271
Meat, Saving.....	291
Milk, Electricity Purifies.....	224
Milk Tank Car.....	274
Pomo Indian Foods.....	226
Vitamin D Excess, Harmless.....	50
Vitamins.....	117
FORESTRY	
Conservation of Wilderness.....	121
"Dead Heads" Reclaimed.....	92
Erosion Control.....	326
Haze Meter.....	338
Pruning Saw, Power Driven.....	163
Timberland, Sad State of Nation's.....	161
FUELS	
Fuel from Sewer Gas.....	271
Gas Generators, Home.....	87
Gasoline Prices.....	198
Octane Rating (100).....	201
Oil Source, Searching for.....	163
Oil Well Shot Test.....	52
GAME	
Duck Inventory.....	225
Game Increase.....	64
GEOLOGY	
Dry-Ice Well Leased.....	94
Earthquakes, Laboratory.....	144
Earth's Age, Chemical Estimates of.....	205
Seismology, Amateur.....	194
Springs, Hot and Cold, Australian.....	272
Underground Rock Located by Sound.....	271
GLASS	
Double Glazing, Strip for.....	204
Laboratory Built of Glass.....	148
HEALTH. See Medicine	
HYPNOTISM	126

INDEX TO VOLUME 154, JANUARY-JUNE, 1936

AGRICULTURE	
Cotton for Highways.....	341
Erosion Control.....	326
Farm Products in Factories.....	319
Frost Chaser.....	30
Insecticide—Derris.....	211
Soy-Bean Production.....	36
Sugar Cane Diseases.....	113, 144
AIRPLANES. See Aviation	
ALUMINUM'S FUTURE	65
ANTHROPOLOGY. See Archeology, etc.	
ARCHEOLOGY, ANTHROPOLOGY, and ETHNOLOGY	
Babylon's "Solid Beer".....	277
Beth-Shan, Palestine.....	76
Helical Gears in Middle Ages.....	206
Interglacial Man in America.....	4
Minturnae.....	325
Missionaries of Science, Amateur.....	177
Nebraska Protects Antiquities.....	226
"Optical" Rouge.....	207
Peking Man, Food of.....	14
Roman Excavations.....	301
Serpent Mound in Ohio.....	182
ARMY & NAVY	
Aeronautics in Naval Architecture.....	276
Armor Piercing Shell, New.....	88
Army Equipment, Motorized.....	192
Bomber versus Pursuit Planes.....	202
Capital Ship's Structural Defense.....	259
Civil Aviation in National Defense.....	10
Diesels for Battleships?.....	18
Monitor Drawings.....	38
Pacificif Piffle.....	64
Raw Materials, Strategic.....	138
Refueling System for Army Cars.....	36
Seaplane Record, Navy.....	33
Tear Gas Projectile Brazed.....	291
Tripartite Naval Treaty.....	305
War Fire.....	272
ASTRONOMY	
Bridge Builder, Lawyer, Manufacturer.....	176
Double Stars.....	314
Earth Safe from Collision.....	248
McDonald Observatory.....	137
Minor Planets.....	136
Nova Herculis, More About.....	74
Planets, Minor.....	184
Solar Tower.....	176
Star Finder, Simple.....	265
Sun-Spots and Magnetic Storms.....	270
Telescope Maker, Amateur 40, 95, 153, 214	
Telescope, Space Penetrating Power of.....	280, 342
Telescope, 200-inch.....	237
Telescopes, 12-Inch, Amateur.....	320
ASTROPHYSICS. See Astronomy	
AUTOMOBILES	
Air Conditioned Motor Vehicles.....	150
Automobiles, European.....	241
CO, Death and.....	61
Cylinder Repairs Checked.....	162
Death and the Motor Car.....	9
Death on Four Wheels.....	122
Headlight Bulb, Bar Filament.....	224
Horns or Brakes?.....	305
Military Motorized Equipment.....	192
Rail-Highway Truck.....	268
Refueling System for Army Test Equipment.....	36
Tire, Non-Skid.....	199
Tire, Non-Skid.....	87
AVIATION	
Air Camera for Amateurs.....	203
Airline Bids, Pacific.....	31
Airmail by Rocket?.....	202
Air Operation, Cold Weather.....	89
Airport Directory.....	33
Air Records.....	278
Airships, Build?.....	177
Airship Survey Report.....	267
Amphibian, Fairchild 91.....	267
Atlantic Flight.....	173, 177
Automatic Flight.....	202
Aviation, Banner Year for.....	278
Beacon, Airport.....	201
Blind Flying by Sound.....	266
Bomber Versus Pursuit.....	202
Brakes for Airplanes.....	148
Catapulting Commercial Airplanes.....	270
Civil Aviation in National Defense.....	10
Club Car, Flying (Boeing 247-D).....	32
Coupe for Private Flying.....	203
De-icing the Propellers.....	200
Drift and Speed Indicator.....	200
"Flying" Flea".....	146
Great Circle Aircraft Construction.....	266
Hindenburg.....	330
Home Airplane Design.....	89
Instruments, Light for.....	33
Lubrication by Centrifugal Action.....	201
Meteorology, Visibility in	33
"Motor Glide".....	272
Nosing Over, Experiments in.....	332
Octane Rating (100).....	201
Plastic Materials? Airplanes of.....	105
Propeller Blades, Machining.....	90
Radio Flying.....	322
Rockets, Pioneer Work With.....	89, 202
Roof Top Landings.....	33
Seaplane Record, Navy.....	33
Sleepers, Douglas.....	147
Tailless Private Airplane.....	32
BIOGRAPHY & PORTRAITS	
Armstrong, Major Edwin H.....	3
Carrel, Dr. Alexis.....	235
Curie-Joliot, Irene.....	83
Heisenberg.....	80
Joliot, Prof. F.....	83
Kettering, Charles F., Award to.....	203
Livingston, Dr. M. S., of.....	116
Mahan, Admiral, Projected Biography.....	204
Mottern, H. H.....	119
Seuburger, Mrs. M. M.....	195
Swasey, Ambrose.....	115
Zworykin, Dr. V. K.....	69
BOTANY	
Floriculture, Electrical.....	133
Lily, Nondescent.....	34
Pasteurized Dirt.....	273
Peanut-Walnut.....	273
BRIDGES	
Aluminum Floored Bridge.....	67
Golden Gate Bridge Cables.....	94
San Francisco Bridge.....	60
BUILDING CONSTRUCTION	
Concrete, Storm Testing.....	336
Concrete, "Whipped" (Poretherm).....	38
Glazing, Strip for Double.....	204
Lime, Waterproof.....	107
Masonry, Rubber for Caulking.....	268
Preventing Plant Growth on Masonry.....	211
Soil, Sandy, Solidified.....	340
Windowless Building Features.....	208
CHEMISTRY	
Boron Wearing Surfaces.....	150
Cement Particles, Measuring Minute.....	207
Chromium Plating.....	163
Coal-Tar Chemicals, Shortage of.....	264
Concrete, Storm Testing.....	336
Concrete, "Whipped" (Poretherm).....	38
Dust Explosions.....	70
Dyes, Fast American.....	316
Farm Products in Factories.....	319
Fresh Water from Sea.....	121
Gadolinium Isolated.....	204
Hydrogenation Ages Whisky.....	162
Methyl Bromide Fire Extinguisher.....	145
Microscopic Chemistry.....	352
Molding Material, Anti-Friction.....	273
Oils, New Test for.....	95
Paraffin, Uses for.....	335
Phenothiazine for Moth Control.....	145
Preventing Plant Growth on Masonry.....	211
Printing, Chemistry Speeds Up.....	108
Rat Killer, Dry Ice as.....	338
Soap versus Soapless Soap.....	30
Soil, Sandy, Solidified.....	340
Temperature Control.....	149
Tetronite B.....	332
Turpentine, Dehydration of.....	353
Wood Distillation.....	265
Wood Pulp Utilization.....	189
"Zam" Improves Zinc Plating.....	206
CRIME	
Documents, Photographing Burned.....	339
Fingerprint Differences.....	333
Fingerprint Machine.....	150
Section Slicer.....	73
DAMS	
Boulder Dam, Schematic View of.....	199
Boulder Dam Turbine Casing.....	87
Fort Peck Dam.....	306
France, Second Highest Dam in.....	270
Silt Removal, Colorado River.....	91
DIESELS	
Diesels for Battleships?.....	18
Weight Saving in Construction.....	328
DIRIGIBLES. See Aviation	
DUST EXPLOSIONS	70
ECONOMICS	
Industry and Employment.....	241
ELECTRICITY	
Auto Bulb, Bar-Filament.....	224
Electrocamera.....	265
Fan, Safe.....	270
Floriculture, Electrical.....	133
Fly Killer, Electric.....	328
Garden Lighting.....	336
GENERATING PLANT, HOME-MADE	129
Generator, Bicycle.....	210
High Voltage, Commercial Research in.....	84
Milk Purified by Electricity.....	224
Motor, Multi-Speed.....	273
Telephone, "Speaking Clock" for.....	272
ELECTRONICS. See also Radio	
Beam Power Amplifier.....	351
Color Analyzer.....	149
Electron Lens (Zworykin).....	250
Electron Multiplier.....	68
Photo Cells for Many Uses.....	205
Photronic Cell, High-Output.....	106
Television Motor.....	269
Tuning Indicators.....	351
ENGINEERING, CIVIL. See also Bridges, Dams, and Tunnels	
Bordeaux, Modern Port for.....	252
Caissons, Gyrating.....	196
Cape Cod Canal.....	26
Fort Peck Dam.....	306
Oil Lines Bridge Highway.....	211
River Bed, Stainless Steel.....	164
Sea-Shore Erosion.....	130
Silt Removal, Colorado River.....	91
ENGINEERING, MECHANICAL	
Cable Wire, New Test for.....	205
Helical Gears in Middle Ages.....	206
Newcomen Engine Reconstructed.....	260
Strip Shovel, World's Largest.....	264
ENTOMOLOGY	
Beetles, Japanese, Resisted Winter.....	264
Coddling Moth Control.....	145
Mantis.....	304
Mosquitoes Cause Deaths.....	161
Sugar Cane Pests.....	86
ETHNOLOGY. See Archeology, etc.	
FABRICS, WHY FADED?	316
FINE ARTS	
Gold Art Revived.....	88
Ultra-Violet for Art Examination.....	36
FIRE	
Cotton Duck, Fireproofing.....	290
Fire Extinguisher, Methyl Bromide.....	145
Oil Fires, Extinguish, With Water.....	31
FISH AND FISHERIES	
Live Bait May Spoil Fishing.....	273
Smothering Fish.....	30
Swordfish Stabs a Boat.....	332
Trout, Hatchery, Do They Go Wild?.....	242
FOODS	
Eggs, Keeping, Fresh.....	341
Food versus Beauty.....	163
Fruit Preserved with Iodized Wrappers.....	271
Meat, Saving.....	291
Milk, Electricity Purifies.....	224
Milk Tank Car.....	274
Pomo Indian Foods.....	226
Vitamin D Excess, Harmless.....	50
Vitamins.....	117
FORESTRY	
Conservation of Wilderness.....	121
"Dead Heads" Reclaimed.....	92
Erosion Control.....	326
Haze Meter.....	338
Pruning Saw, Power Driven.....	163
Timberland, Sad State of Nation's.....	161
FUELS	
Fuel from Sewer Gas.....	271
Gas Generators, Home.....	87
Gasoline Prices.....	198
Octane Rating (100).....	201
Oil Source, Searching for.....	163
Oil Well Shot Test.....	52
GAME	
Duck Inventory.....	225
Game Increase.....	64
GEOLOGY	
Dry-Ice Well Leased.....	94
Earthquakes, Laboratory.....	144
Earth's Age, Chemical Estimates of.....	205
Seismology, Amateur.....	194
Springs, Hot and Cold, Australian.....	272
Underground Rock Located by Sound.....	271
GLASS	
Double Glazing, Strip for.....	204
Laboratory Built of Glass.....	148
HEALTH. See Medicine	
HYPNOTISM	126

INSECTS. See *Entomology*

JUNK INDUSTRY

LUBRICATION

Compressor, Oilless..... 51
 Lubrication by Centrifugal Action..... 201
 Oils, New Test for..... 95
 Viscous Oil..... 333

MARINE

Aeronautics in Naval Architecture.....
 Beacon, Swedish Radio.....
 Bordeaux Port.....
 Marine Grass Cutter.....
Normandie—Transatlantic Monstrosities..... 9
Queen Mary, Mechanical Innovations on.....
Queen Mary—Transatlantic Monstrosities..... 9
 Towing Tank..... 255

MATHEMATICS

Protractor, Triangular..... 38
 Trisection of the Angle..... 190
 Trisection Correction..... 332

MEDICINE

Artificial Respiration, Surer.....
 Blood from the Dead.....
 Blood Test Before Marriage..... 31
 Bone Surgery with Machine Tools.....
 Burns, Tannic Acid Treatment for.....
 Caesarean, Caesar Not Born by.....
 Children, Malformed.....
 CO, Death and.....
 Colds.....
 Colds, 'Flu and Pneumonia.....
 Drugs, Old, Destroyed.....
 Eye Cancer, Glioma.....
 Glass Tube in Blood Vessel.....
 Heart Disease, New Treatments for.....
 Hearts, Revived Human.....
 Honey for Wounds.....
 Insanity Increase.....
 Marijuana Menaces Youth.....
 Medicines Will Taste Better.....
 Metabolism of Chickens.....
 Mosquitoes Cause Deaths.....
 Nervous Breakdowns.....
 Noise Standard to Aid Hearing.....
 Painless Dentistry, Formula for.....
 Paresis, Monkey Malaria Fights.....
 Pimples.....
 Rhythm Lessens Fatigue.....
 Rickets Prevention.....
 Septic Sore Throat.....
 Showers Before Swimming.....
 Skin Graft Triumph.....
 Skin Trouble Caused by Lipstick.....
 Sleeping Powders, Antidote for.....
 Smoking, Effects of.....
 Spinach.....
 Surgical Needle, Rethreadable.....
 Syphilis and Gonorrhea.....
 Syphilis, Eradication of.....
 Toe Out—Toe In.....
 Tooth Decay.....
 Trench Mouth Increase.....
 Vitamin D Excess, Harmless.....
 Vitamins.....
 Wounds, Cure for Stubborn.....

METALLURGY

Alnico.....
 Aluminum, Bright Finished.....
 Aluminum Roads.....
 Aluminum's Future.....
 Bauxite Mine.....
 Boron Wearing Surfaces.....
 Chromium Plating.....
 Gadolinium Isolated.....
 Gold Art Revived.....
 Lithium Six.....
 Metallascope—Treasure Finder.....
 Nickel Plating, Bright.....
 Platinum Flute.....
 Radium, Arctic.....
 Rhodium Plating.....
 Scrap Metals.....
 Silver Plate, Non-Tarnishing.....
 Stainless Steel River Bed.....
 Stainless Steel Sheet, Huge.....
 Steels, Testing by Sparking.....
 Zinc Plating Improved.....

METHEROLOGY

Dust-Storm Area, No Sahara in.....
 Earth Tides.....
 Meteorography, Radio.....
 Snow Garlands.....
 Temperature, Extremes of.....
 Visibility in Flight.....
 Winters of 1935 and 1936, Comparison.....

MICROSCOPY

Bacteria Incubator, Inexpensive..... 34
 Chemistry, Microscopic..... 352
 Micro-Movies, 16 mm..... 35
 Section Slicer..... 73

MISCELLANEOUS

Belgian National Park.....
 Bethwackment, 16th Century.....
 Bureau of Standards "Visitor's Manual".....
 Calendar Error.....

Cellophane Wrapped Pipe..... 275
 Cosmetics, Man's..... 87
 Drafting Board, Professional..... 272
 Food versus Beauty..... 163
 Glass, Telescope, For Cooking..... 198
 Gloves Fitted Scientifically..... 204
 Hide Finishing, Accuracy in..... 212
 Iodized Wrappers Preserve Fruit..... 271
 "Jumbo"..... 21
 Liquid Measuring Pump, Automatic..... 275
 "Optical" Rouge..... 207
 Platinum Flute..... 336
 Reed Tuner, Visual..... 333
 Rockets, Pioneer Work With..... 89
 Stop Watch, Wrist..... 333
 Thermometer Uses "Coils Within Coils"..... 49
 Wire Mileage..... 86

MOVING PICTURES. See *Photography and Moving Pictures*

NATURAL HISTORY

Gynandromorph Ants..... 212
 Tame Cats Gone Wild..... 224

NAVY. See *Army and Navy*

Paper Crimping Machine..... 208
 Photo-Copying Device..... 225
 Rotary Duplicator..... 276

OPTICS

Seeing in Dark..... 250
 Spectacles, Lying-Down..... 264
 Stereoscope, Single Picture..... 207

PAINTS and VARNISHES

Lacquer Finish, Stretchable..... 226
 Laundry Uses Aluminum Paint..... 52
 Paint, Vanilla..... 274
 Turpentine, Dehydration of..... 353

PAPER

Crimping, Machine for..... 208
 Wood Pulp..... 189

PATENTS

Patents and Industry..... 79
 Preserving Proof of Invention..... 213

PHOTOGRAPHY and MOVING PICTURES

Aerial Photograph of Connecticut..... 90
 Air Camera for Amateurs..... 203
 Bulletin Board—Darkroom..... 159
 Caricature, Photographic..... 102
 Chemicals, Packaged..... 47
 Contaflex..... 47
 Contest, Photographic..... 219
 Darkroom Uses for Boxes..... 348
 Developer, Fine Grain..... 159
 Developer, Glycin Paper..... 286
 Developer, "Quinolin"..... 220
 Documents, Photographing Burned..... 339
 Easel Copying Stand..... 159
 Electrocamera..... 265
 Exposure Meter, Photoscop..... 103, 160
 Feet, Try "Shooting"..... 47
 Film File, Home-made..... 48
 Film, 35-mm., in Bulk..... 287
 Flood Lamps, New..... 287
 Focusing Aid..... 159
 "Ghosting"..... 221
 Hobby Photography..... 346
 Infra-Red Nature Photography..... 300
 Interpretations, Camera..... 158
 "Jump" Screen Makes Smooth
 Movies..... 290
 Lens Hood and Sky Filter..... 287
 Lens Screen..... 220
 Loading Tank, Daylight..... 221
 Micro-Movies, 16 mm..... 35
 Miniature, Argus..... 104
 Mistakes, Others'..... 103
 Mounts, Screw-In..... 159
 Movie History..... 107
 Movies, Chemistry in the..... 92
 Negatives, Viewing..... 349
 Nightmare, Photographic..... 347
 Paper, Negatives, "Opaline Parchment"..... 219
 Portraiture, "Kink"..... 219
 Range Finder..... 47
 Screw Adapter, Tripod..... 47
 Series Photography..... 46
 Silhouettes, Daylight..... 286
 "Smokestacks"..... 218
 Sound Recorded by Ultra-Violet..... 269
 Sports, "Shooting"..... 348
 Still-Movie Camera..... 159
 Stirring Rods..... 104
 Street Photography..... 28
 Surfaces, Studies in..... 103
 Tape, Scotch Adhesive..... 287
 "Transatlantic Tunnel"..... 35
 Travel Photography..... 284
 U. S. S. R., Camera Hunting in..... 347

PHYSICS

Air Waves, Photographing..... 28
 Atomic Physics, Books on..... 305
 Atom, Why Does the Stick Together?..... 80
 Dewar Flasks..... 333
 Heat Transfer Made Visible..... 277
 Neutrino, Mystery of the..... 257
 Radium, Artificial..... 5
 Smashing Atoms, Mechanisms for..... 116
 Sun, Energy from..... 197
 Temperature Control..... 149

PORTRAITS. See *Biography and Portraits*

POWER

Casings for Turbines at Boulder Dam..... 87
 Motor Runs on Sewer Gas..... 271
 Steam Generation by Electricity..... 334
 Sun, Energy from..... 197

RADIO

Abbreviations, Radio..... 350
 Aerials, Indoor..... 45
 All-Wave Selectivity..... 101
 Auto Ignition Interference..... 45
 Beam, Flying the..... 322
 Beam Power Amplifier..... 351
 Broadcasting, British..... 289
 Cuban 'Phones..... 157
 Frequency Drift..... 350
 Frequency Modulation..... 157
 Interference, I-F..... 101
 Interference, "The Shadow"..... 100, 157, 288
 Listen, Where to..... 350
 Metal Tubes Here to Stay..... 100
 Metal Tubes, New..... 101
 Noise Silencer..... 222
 Noise Silencer Adapters..... 289
 Politics and Power Loads..... 289
 "Queen Mary's" Radio Equipment..... 101, 334
 Radio Alarm Foils Intruders..... 279
 Radio Beacon, Swedish..... 148
 Radio Meteorography..... 147
 Receiver Alignment..... 289
 Reception, Two-Way..... 45
 Resonance Indicator..... 350
 "Shadow," The..... 100, 157, 288
 Skip-distance, Overcoming..... 44
 Television Cable, German..... 351
 Television's Status..... 121
 Ten Meters, Tuning to..... 289
 Tone Control, Use of..... 45
 Transmitter, Smallest Micro-Wave..... 288
 Tube-For-Tube Comparison..... 101
 Tuning Indicators..... 351
 Verify Foreign Stations..... 45
 Volume Control, Automatic..... 156
 Volume Expansion..... 223

RADON, ARCTIC

RAILROADS

American Influence On European Railroads

Inventions, Railroad..... 333
 Rail-Highway Truck..... 268
 Tank Car for Milk..... 274
 Tractive Power, Rise in Locomotive..... 164
 Train Stop, Automatic..... 265

REFRIGERATION WITH STEAM

ROADS

Aluminum Roads..... 209
 Concrete Roads, Rubber Joints for..... 290
 Cotton for Highways..... 341
 Europe's Route #1..... 206
 Moving a Highway with Hose..... 86
 Salt Roads..... 52

RUBBER

Latex Coated Textiles..... 162
 Rubber Caulking for Masonry..... 268
 Rubber in Industry..... 22
 Rubber Joints for Concrete Roads..... 290
 Rubber-Lined Pipe..... 335
 Rubber, Tanks Coated with..... 162
 Self-Vulc..... 51
 Sponge Rubber, Wider Use for..... 92
 Synthetic Rubber Elongation..... 87

SAFETY

Artificial Respiration, Surer..... 17
 Bath Tub, Safety..... 149
 CO, Death and..... 61
 Death and the Motor Car..... 9
 Death on Four Wheels..... 122
 Dust Explosions..... 70
 Explosion Menace..... 211
 Fan, Electric, Safe..... 270
 Gas Danger, Robot Detects..... 269
 Horns or Brakes?..... 305
 Radio Alarm Foils Intruders..... 279
 Sleeping Powders, Antidote for..... 162

SANITARY SCIENCE

Aluminum Paint for Laundry..... 52
 Dust Control..... 268
 Showers Before Swimming..... 270
 Trench Mouth..... 148

SMOKE, IF YOU

TELESCOPES. See *Astronomy*

TEXTILES

Cotton Duck, Fireproofing..... 290
 Cotton for Highways..... 341
 Fabrics, Why Faded?..... 316
 Latex Coated Textiles..... 162

TUNNEL, WORLD'S LARGEST-BORE

30

ULTRACENTRIFUGE

329

WELDING, RÉSUMÉ OF

244

WOMEN ATHLETES

142